

IN THE CLAIMS

Please cancel claims 2 and 20 to 24 without prejudice or disclaimer and amend the claims as follows:

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1. (Amended) A method of detecting at least one low molecular weight protein and/or peptide component in a biological fluid comprising
- (a) fractionating proteins or peptides in said biological fluid by molecular weight to produce a fractionated protein or peptide sample;
 - (b) separating a first fraction from said fractionated protein or peptide sample, said first fraction having proteins or peptides with a molecular weight above about 3 kDa and below the filtration limits of a normal kidney;
 - (c) recovering said first fraction having proteins or peptides with a molecular weight above about 3kDa and below the filtration limits of a normal kidney, and
 - (d) determining the proteins or peptides present in said first fraction.
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5. (Amended) The method of claim 1, wherein said fractionating step comprises separation of low molecular weight constituents by size exclusion chromatography.
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8. (Amended) The method of claim 1, wherein said fractionating comprises a hydrodynamic step.
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10. (Amended) The method of claim 1, further comprising fractionating said first fraction by elution from a reverse phase stationary phase.

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12. (Amended) The method of claim 1, wherein said first fraction is further fractionated by elution from an affinity column.
13. (Amended) The method of claim 12, wherein said affinity column comprises monoclonal, polyclonal, recombinant, microorganism display antibodies, or fragments thereof.
14. (Amended) The method of claim 13, wherein said antibodies are directed to target proteins selected from the group consisting of albumin, transferrin, α_1 antitrypsin, α_2 macroglobulin, α_1 acid glycoprotein, C3, Tamm-Horsfall protein, hemopexin, α_2 HS glycoprotein, α_1 antichymotrypsin, Gc globulin and ceruloplasmin.
15. (Amended) The method of claim 12, wherein said affinity column is a non-immunologic entity comprising matrix.
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16. (Amended) The method of claim 15, wherein said non-immunologic entity is selected from the group consisting of protein A, protein G, haptoglobin, arginine, benzamidine, glutathione, Cibacron blue, calmodulin, gelatin, heparin, lysine, lectins, Procion Red HE-3B, nucleic acids and metal affinity media.
17. (Amended) The method of claim 1, wherein said first fraction is further fractionated by electrophoresis.
18. (Amended) The method of claim 1, wherein said first fraction is further fractionated by zonal sedimentation centrifugation on density gradients.

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19. (Amended) The method of claim 1, wherein said determining step comprises identifying said proteins or peptides by mass spectrometry or liquid chromatography.
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Please add the following new claims 25-38:

- 25. (New) The method of claim 1, wherein said first fraction comprises native proteins.
26. (New) The method of claim 1, wherein said filtration limits of a normal kidney is about 30,000 daltons.
27. (New) The method of claim 1, further comprising recovering a second fraction from said biological fluid having proteins with a molecular weight above said filtration limits of a normal kidney and determining proteins in said second fraction.
28. (New) The method of claim 27, wherein said filtration limits of a normal kidney is above about 30,000 daltons.
29. (New) The method of claim 12, wherein said affinity column binds plural specific predetermined proteins.
30. (New) The method of claim 1, wherein the biological fluid is plasma or serum.

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31. (New) The method of claim 1, wherein said first fraction having proteins or peptides with a molecular weight above about 3kDa and below the filtration limits of a normal kidney consists essentially of plasma proteins capable of being filtered by a normal kidney.
32. (New) A fraction of a biological sample produced by the process of claim 1, wherein said first fraction having proteins or peptides with a molecular weight above about 3kDa and below the filtration limits of a normal kidney consists essentially of plasma proteins capable of being filtered by a normal kidney.
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33. (New) The fraction of claim 32, wherein the biological sample is urine.
34. (New) The fraction of claim 32, wherein the biological sample is plasma or serum.
35. (New) The fraction of claim 32, wherein the biological sample is from a tissue.
36. (New) The method of claim 1, wherein said biological fluid is not urine.
37. (New) The method of claim 1, further comprising generating an antibody against at least one of said proteins or peptides.

AMENDMENT UNDER 37 C.F.R. §1.111
U.S. Serial No.:09/921,004

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38. (New) The method of claim 37, further comprising;
- contacting a test biological fluid with said antibody against at least one of said
- proteins or peptides, and
- detecting the presence or absence of said antibody binding to said protein or
- peptide.—
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